Notice of Allowability	Application No.	Applicant(s)	
	09/918,880	GUNDUC ET AL.	
	Examiner	Art Unit	
	Sue Lao	2194	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *amendment filed 1/3/2005*.

2. ☒ The allowed claim(s) is/are *1-15,17,18,22-41,43,44 and 48-54*.

3. ☒ The drawings filed on *7/31/2001* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 4/15/2005
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Sue Lao

SUE LAO
PRIMARY EXAMINER

DETAILED ACTION

1. Claims 1-15, 17-41 and 43-54 are pending. This action is in response to the amendment filed 1/3/2005. Applicant has amended claims 1, 2, 5-7, 11, 12, 15, 20, 21, 25, 27, 28, 31-33, 37, 38, 41, 43, 46, 51, canceled claims 16 and 42, and added claims 53 and 54.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Karl Kenna, FLIESLER MEYER, LLP, on June 24, 2005.

3. The application has been amended as follows:

Please cancel claims 19-21 and 45-47.

Please replace claims 1, 27, 53 and 54 with the following.

1. (Currently Amended) A computer-implemented framework architecture system for allowing a client application to communicate with a server component application, comprising:

a server having a server engine that provides client access to the server, said server engine further including

a server component that provides a service;

an implementation within said server component that provides functions of said service, wherein said implementation is dynamically linked and

loaded into the server engine, so that the server engine is not reconfigured and recompiled;

an interface that allows a client application to access said implementation, wherein said interface is dynamically customized and loaded into the clients address space;

a realization mechanism for allowing the client application to realize said implementation, wherein said implementation includes a vtable, private data store, and per-instance data structure, and wherein the realization mechanism retrieves the information stored within the vtable, private data store, and per-instance data structure, uses this information to populate a proxy vtable, and returns a pointer to the proxy vtable to the client application; and

wherein the client application uses this pointer to thereafter communicate with said implementation.

27. (Currently Amended) A computer-implemented method of allowing a client application to communicate with a server application via a framework architecture, comprising the steps of:

providing a server engine that provides client access to a server, said server engine further including:

a server component that provides a service;

an implementation within said server component that provides functions of said service, wherein said implementation is dynamically linked and loaded into the server engine, so that the server engine is not reconfigured and recompiled;

an interface that allows a client application to access said implementation, wherein said interface is dynamically customized and loaded into the clients address space;

a realization mechanism for allowing the client application to realize said implementation, wherein said implementation includes a vtable, private data

store, and per-instance data structure, and wherein the realization mechanism retrieves the information stored within the vtable, private data store, and per-instance data structure, uses this information to populate a proxy vtable, and returns a pointer to the proxy vtable to the client application; and

using said pointer to thereafter communicate with said implementation.

53. (Currently Amended) A computer-implemented framework architecture system for allowing a client application to communicate with a server component application, comprising:

a server engine in a server that provides client access to the server, said server engine further including

a server component that provides a service;

an implementation within said server component that provides functions of said service, wherein said implementation includes an interceptor for adding services to said server component, wherein said interceptor is a fanout interceptor which during the instantiation of an implementation causes a plurality of intercepting plugins as specified by an interception sequence attribute to be also instantiated, and wherein subsequent method invocations by the client results in invocation of the corresponding methods of intercepting plugins in the order specified;

an interface that allows a client application to access said implementation;

a realization mechanism for allowing the client application to realize said implementation, wherein said implementation includes a vtable, private data store, and per-instance data structure, and wherein the realization mechanism retrieves the information stored within the vtable, private data store, and per-instance data structure, uses this information to populate a proxy vtable, and returns a pointer to the proxy vtable to the client application; and

wherein the client application uses this pointer to thereafter communicate with the implementation.

54. (Currently Amended) A computer-implemented method of allowing a client application to communicate with a server application via a framework architecture, comprising the steps of:

providing a server engine that provides client access to a server, said server engine further including

a server component that provides a service;

an implementation within said server component that provides functions of said service, said implementation further including an interceptor that adds services to said server component, wherein said interceptor is a fanout interceptor which during the instantiation of an implementation includes the step of causing a plurality of intercepting plugins as specified by an interception sequence attribute to be also instantiated, and wherein subsequent method invocations by the client results in invocation of the corresponding methods of intercepting plugins in the order specified;

an interface that allows a client application to access said implementation;

a realization mechanism for allowing the client application to realize said implementation, wherein said implementation includes a vtable, private data store, and per-instance data structure, and wherein the realization mechanism retrieves the information stored within the vtable, private data store, and per-instance data structure, uses this information to populate a proxy vtable, and returns a pointer to the proxy vtable to the client application; and

using said pointer to thereafter communicate with the implementation.

Allowable Subject Matter

4. Claims 1-15, 17, 18, 22-41, 43, 44 and 48-54 are allowed.

5. The following is an examiner's statement of reasons for allowance:

The prior art on record does not teach 'a realization mechanism for allowing a client application to realize said implementation, wherein said implementation includes a vtable, private data store, and per-instance data structure, and wherein the realization mechanism retrieves the information stored within the vtable, private data store, and per-instance data structure, uses this information to populate a proxy vtable, and returns a pointer to the proxy vtable to the client; wherein the client uses this pointer to thereafter communicate with said implementation', in combination with the server component, the implementation and the interface of the server engine, in the manner as recited in claims 1, 27, 53 and 54. Note applicant's remarks, page 12, last paragraph and page 13, first paragraph, as well as the specification as filed, paragraph [0160] for the realization mechanism as disclosed.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sue Lao whose telephone number is (571) 272-3764. A voice mail service is also available at this number. The examiner's supervisor, SPE Meng-Ai An, can be reached on (571) 272 3756. The examiner can normally be reached on Monday - Friday, from 9AM to 5PM. The fax phone number for the organization where this application or proceeding is assigned is (703) 872 9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 24, 2005

SUE LAO
PRIMARY EXAMINER